

CSP fisheries observer programme

Technical Working Group, 27 August 2007

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1. 2005/06 observer coverage planned and achieved (July 1 2005 until June 30 2006)

Fishery	CSP days planned	CSP days achieved	Completed	Total observer days
Charter tuna	37	30	81%	212
Deep sea ling	37	35	95%	311
Hake	86	86	100%	113
Hoki	214	201	94%	1307
Jack mackerel	138	138	100%	420
Orange roughy	53	53	100%	325
Oreo	22	13	59%	237
Purse seine	15	15	100%	81
Scampi	147	141	96%	141
Southern blue whiting	16	16	100%	261
Domestic tuna	100	38	38%	221
Inshore ling	50	33	66%	33
Longline snapper	100	58	58%	58
Setnet	100	83	83%	83
Total	1115	940	84%	3803

2. Summary of protected species incidental catch in 2005/06

	No. tows/sets	No. hooks	Fur seals		Sea lions		Cetaceans		Seabirds		Turtles	
			Dead	Alive	Dead	Alive	Dead	Alive	Dead	Alive	Dead	Alive
HAK	233		6	1					3	3		
HOK	2042		103	8					61	25		
SBW	329		34	1	1				1	2		
BAR	324		20				1		18	14		
SWA	114								56	4		
JMA	615		2				2		1	2		
SCI	201				1				11	19		
OEO	432								1	3		
ORH	708								2	1		
TRE	71						2					
LIN	121		3						1			
SQU	1337		3	1	7				152	56		
Trawl total	6527		171	11	9	0	5	0	307	129	0	0
Purse seine	135		0	0	0	0	0	0	0	0	0	0
BLL	550	3742697	1						26	19		
SLL	296	1353781		11					28	14		
SNA	69	124285							2	10		1
LL total	915	5220763	1	11	0	0	0	0	56	43	0	1
Setnet	192		3	0	0	0	0	0	3	0	0	0
TOTAL			175	22	9	0	5	0	366	172	0	1

3. Seabird captures in trawl fisheries

	HAK		HOK		SBW		BAR		SWA		JMA		SCI		SQU		ORH		OEO		LIN		Total	
	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A
D = dead, A = alive																								
Albatross (unidentified)			2				1								6				1				10	0
Gibson's albatross																							0	0
Southern Buller's albatross	2		4				1								2	2	2						11	2
Black petrel																2							0	2
Southern cape pigeon			1	2																			1	2
Campbell albatross			1																				1	0
Cape pigeon		1	1	11		1						1							1				1	15
Common diving petrel			1	3										6	1	1							2	10
Fairy prion											1	1											1	1
Flesh-footed shearwater													8										8	0
Black bellied storm petrel							1									1							0	2
Grey-backed storm petrel			1	1																			1	1
Grey petrel					1	1																	1	1
Black-browed albatross													2										2	0
Petrel (unidentified)							1						1		2								3	1
Prion (unidentified)				1			2																0	3
Southern Royal albatross															1	1							1	1
Salvin's albatross			7	1											1	1							8	2
Seabird				2																			0	2
Sooty shearwater		1	37	2			7	3	40	4					47	21							131	31
Seabird large									3						1								4	0
Southern giant petrel							1																0	1
Storm petrel (unidentified)							1																0	1
Shy albatross									2					10	1				1				3	11
Giant petrel (unidentified)																1							0	1
Wandering albatross																		1					0	1
White-chinned petrel			3	1			1		1						36	24				1			41	26
White-headed petrel													1										0	1
NZ white-capped albatross	1	1	3	1			8	5	10					2	54	2					1		77	11
Total	3	3	61	25	1	2	18	14	56	4	1	2	11	19	152	56	2	1	1	3	1	0	307	129

4. Seabird captures in longline fisheries

	BLL		SLL		SNA		Total	
	D	A	D	A	D	A	D	A
D = dead, A = alive								
Albatross (unidentified)	1						1	0
Gibson's albatross			1				1	0
Southern Buller's albatross			5	7			5	7
Black petrel					2		2	0
Buller's shearwater						4	0	4
Chatham albatross	2						2	0
Campbell albatross			7				7	0
Cape pigeon	1	2					1	2
Common diving petrel	3	3					3	3
Flesh-footed shearwater				4			0	4
Grey petrel			8				8	0
Black-browed albatross			2				2	0
Pacific albatross			1				1	0
Northern giant petrel		2					0	2
Petrel (unidentified)						6	0	6
Prion (unidentified)		1					0	1
Broad-billed prion	1						1	0
Southern Royal albatross				1			0	1
Salvin's albatross	2						2	0
Sooty shearwater	4	2					4	2
Southern giant petrel			2				2	0
Storm petrel (unidentified)		4					0	4
Wandering albatross		1		2			0	3
White-chinned petrel	12	3	1				13	3
NZ white-capped albatross		1	1				1	1
	26	19	28	14	2	10	56	43

5. Seabird captures in set net fisheries

	SPO	
	D	A
D = dead, A = alive		
Pied shag	1	
Spotted shag	2	

6. Protected species captures and the number of tows by month and FMA

a. Middle depth trawl fisheries

By target species

Hake						
	CHA			SOU	SUB	
	No. tows	Fur seals	Seabirds	No. tows	No. tows	Fur seals
Jul-05	44		3			
Aug-05						
Sep-05	25	2	2			
Oct-05						
Nov-05	7		1	2	6	
Dec-05					77	3
Jan-06						
Feb-06						
Mar-06						
Apr-06						
May-06						
Jun-06	72	1				

Hoki									
	CEE			CHA			SEC		
	No. tows	Fur seals	Seabirds	No. tows	Fur seals	Seabirds	No. tows	Fur seals	Seabirds
Jul-05	15			264	24	1			
Aug-05	20	10	3	762	31	10	10	2	
Sep-05	61	14	6	56	7	2	5	3	
Oct-05							59		4
Nov-05							7		3
Dec-05							11		19
Jan-06							15		2
Feb-06							53		17
Mar-06							113	2	1
Apr-06							10		
May-06							60		
Jun-06				31			138		

	SOE		SOI	SOU			SUB	
	No. tows	Seabirds	No. tows	No. tows	Fur seals	Seabirds	No. tows	Seabirds
Jul-05								
Aug-05				46	7	5		
Sep-05				3	2			
Oct-05	51	3		1			1	
Nov-05							4	
Dec-05	23			8			5	
Jan-06	20							
Feb-06			2					
Mar-06				2		1	11	
Apr-06	28							
May-06	29			46		4	19	4
Jun-06	35			15	1		10	1

Southern blue whiting							
	SOI				SUB		
	No. tows	Fur seals	Seabirds	Leopard seal	No. tows	Fur seals	Seabirds
Jul-05							
Aug-05					53	24	2
Sep-05	122	5	1	1	154	5	
Oct-05							
Nov-05							
Dec-05							
Jan-06							
Feb-06							
Mar-06							
Apr-06							
May-06							
Jun-06							

Barracouta							
	CEW	CHA		SOU			SUB
	No. tows	No. tows	Fur seals	No. tows	Fur seals	Seabirds	No. tows
Jul-05	17	31	1				
Aug-05		33	17				
Sep-05		11	1				
Oct-05							
Nov-05							
Dec-05		15					
Jan-06							
Feb-06				19			4
Mar-06				194	1	32	
Apr-06							
May-06							
Jun-06							

Silver Warehou						
	CHA	SEC		SOE	SOU	
	No. tows	No. tows	Seabirds	No. tows	No. tows	Seabirds
Jul-05					8	
Aug-05						
Sep-05						
Oct-05						
Nov-05						
Dec-05		1		2	4	
Jan-06						
Feb-06					1	
Mar-06		33	15		19	11
Apr-06						
May-06	4	26	34		16	
Jun-06						

Scampi								
	AKE		CHA	SOE	SOI			SUB
	No. tows	Seabirds	No. tows	No. tows	No. tows	Seabirds	Sea lion	No. tows
Jul-05								
Aug-05								
Sep-05								
Oct-05	39	8	2		29	1		
Nov-05					18	8	1	71
Dec-05								
Jan-06								
Feb-06								
Mar-06								
Apr-06								
May-06	48	1						
Jun-06	27	12		38				

Squid											
	SEC			SOI				SOU			SUB
	No. tows	Fur seals	Seabirds	No. tows	Fur seals	Seabirds	Sea lions	No. tows	Fur seals	Seabirds	No. tows
Jul-05											
Aug-05											
Sep-05											
Oct-05											
Nov-05								17		2	
Dec-05								25		1	
Jan-06								118	1	1	
Feb-06				377	1	81		131		15	1
Mar-06	2		1	230		22	5	205	1	19	
Apr-06	1			56		2	2	151		53	
May-06	11	1	3					12		8	
Jun-06											

Ling trawl						
	SEC	SOU			SUB	
	No. tows	No. tows	Fur seals	Seabirds	No. tows	Fur seals
Jul-05						
Aug-05		4				
Sep-05		9	1		9	
Oct-05	1	49	1	1	46	1
Nov-05						
Dec-05						
Jan-06						
Feb-06						
Mar-06					3	
Apr-06						
May-06						
Jun-06						

Trevally		
	AKW	
	No. tows	Common dolphins
Jul-05		
Aug-05		
Sep-05		
Oct-05		
Nov-05		
Dec-05	36	2
Jan-06	35	
Feb-06		
Mar-06		
Apr-06		
May-06		
Jun-06		

b. Pelagic trawl fisheries

By target species

Jack mackerel										
	AKE	AKW	CEW			CHA			SEC	SOU
	No. tows	No. tows	No. tows	Fur seals	Seabirds	No. tows	Seabirds	Common dolphins	No. tows	No. tows
Jul-05			30	1		28	1			
Aug-05										
Sep-05	4					1				
Oct-05	3									
Nov-05		40	40							
Dec-05		35	356		2	48		2		
Jan-06										
Feb-06										
Mar-06									29	1
Apr-06										
May-06										
Jun-06			2	1						

c. Deep water trawl fisheries

By target species

Orange roughy								
	AKW	CEE	SEC	SOE		SOI	SOU	SUB
	No. tows	No. tows	No. tows	No. tows	Seabirds	No. tows	No. tows	No. tows
Jul-05				32		2	18	6
Aug-05								43
Sep-05								
Oct-05	112		1	35				
Nov-05				22				
Dec-05				31				
Jan-06								
Feb-06								
Mar-06								
Apr-06		2		77				
May-06				109	1			7
Jun-06				208	2			

Oreo							
	SEC		SOE	SOI	SOU	SUB	
	No. tows	Seabirds	No. tows	No. tows	No. tows	No. tows	Seabirds
Jul-05	18		12	8	2	48	
Aug-05							
Sep-05							
Oct-05	33	3				134	1
Nov-05			8				
Dec-05			4				
Jan-06							
Feb-06	32						
Mar-06							
Apr-06			14				
May-06			31			70	
Jun-06			18				

d. Purse seine fisheries

Combined for sets targeting skipjack tuna, jack mackerel, trevally, blue (English) mackerel

Purse seine			
	AKE	AKW	CEW
	No. tows	No. tows	No. tows
Jul-05			
Aug-05			
Sep-05	2		
Oct-05	4		
Nov-05	14		
Dec-05	11		
Jan-06	5	15	
Feb-06		28	16
Mar-06		40	
Apr-06			
May-06			
Jun-06			

e. Bottom longline fisheries

Combined for ling, bluenose, hapuku & bass

Bottom longline									
	AKE	CEE			SEC	SOE		SOU	
	No. tows	No. tows	Seabirds	Fur seals	No. tows	No. tows	Seabirds	No. tows	Seabirds
Jul-05					7				
Aug-05	29					13			
Sep-05						97	5		
Oct-05						31	3	65	3
Nov-05	8							105	12
Dec-05									
Jan-06						64	11		
Feb-06									
Mar-06									
Apr-06		54	2						
May-06		65	7	1					
Jun-06		43	2						

f. Surface longline fisheries

Combined for albacore, bigeye and southern bluefin tuna

Surface longline										
	AKE	AKW	CEE			CHA			SOU	
	No. tows	No. tows	No. tows	Seabirds	Fur seals	No. tows	Seabirds	Fur seals	No. tows	Seabirds
Jul-05	2		58	11	2					
Aug-05	6		1							
Sep-05	8									
Oct-05										
Nov-05		1								
Dec-05										
Jan-06										
Feb-06			2	1						
Mar-06			10	5						
Apr-06									16	7
May-06			12	1		26	2	5	52	3
Jun-06	1		26	9	2	75	3	2		

g. Snapper longline fishery

Snapper			
	AKE		
	No. tows	Seabirds	Turtles
Jul-05			
Aug-05			
Sep-05			
Oct-05			
Nov-05			
Dec-05	30		
Jan-06	22	3	1
Feb-06	8	9	
Mar-06			
Apr-06	9		
May-06			
Jun-06			

h. Set net observer data 05/06

	Area	Month	Sets observed	Target species	STA	Mean set net length (m)	Mean setting time (min/set)	Mean hauling time (min/set)	Protected species bycatch (alive)	Protected species bycatch (dead)	No. bycaught
1	Nelson	Nov-05	54	SPO	038	750	not given	not given			
2	Nelson	Nov-05	22	SPO	038	600	4	35		Spotted shag	2
			6	SPO	040						
3	Nelson	Feb-06	4	SPO	038	600	52	78			
4	Southland	Jan-06	4	SPO	025	1780	11	62			
		Jan-06	7	SCH	025						
		Feb-06	3	SCH	025						
		Feb-06	1	SPO	025						
		Feb-06	5	SPO	030					Fur seal	3
5	Southland	Jan-06	2	SPO	025	2640	13	72			
6	Southland	Jan-06	3	SCH	030	2326	23	147			
		Feb-06	4	SCH	025						
7	Nelson	Feb-06	28	SPO	038	400	5	20		Pied shag	1
8	Southland	Feb-06	6	SCH	027	2428	8	65			
		Feb-06	1	SCH	025						
9	Otago	Mar-06	3	SPD	024	500	7	62			
		Apr-06	8	SPD	024						
10	Nelson	Mar-06	8	SPO	038	707	7	33			
		Mar-06	6	SPO	037						
11	Otago	Mar-06	3	SCH	024	938	10	45			
		Apr-06	1	SCH	024						
12	Otago	Mar-06	2	SPD	024	500	not given	136			
13	Nelson	Apr-06	4	SPO	037	600	4	21			
		Apr-06	8	SPO	038						
14	Southland	Mar-06	2	SPD	025	1200	17	87			

7. 2006/07 observer coverage planned and achieved (1 July 2006 to 30 June 2007)

Fishery	CSP days planned	CSP days achieved	Completed
Charter tuna	28	28	100%
Deep sea ling	23	21	91%
Hake	76	34	45%
Hoki	177	149	84%
Jack mackerel	57	55	96%
Orange roughy	113	98	87%
Oreo	80	59	74%
Scampi	150	136	91%
Southern blue whiting	9	9	100%
Domestic tuna	73	30	41%
Inshore ling	151	68	45%
Inshore trawl	250	106	42%
Setnet	165	116	70%
Total	1352	909	67%

a. Set net observer data 06/07

	Area	Month	Sets observed	Target species	STA	Mean set net length (m)	Mean setting time (min)	Mean hauling time (min)	Protected species bycatch (alive)	Protected species bycatch (dead)	No. bycaught
1	Kaikoura	Nov-06	7	SPO	018	300	10	30	Cape pigeon Sooty shearwater Seagull		3 1 1
2	Southland	Nov-06	10	SPO	025	880	20	120			
		Dec-06	2	SCH	025						
		Dec-06	6	SPO	025						
3	Kaikoura	Nov-06	17	SPO	018	400	10	30			
		Nov-06	6	SPD	018	400					
		Nov-06	11	SPO	018	300				Dusky dolphin	1
4	Nelson	Dec-06	4	SPO	037	1500	10	90			
		Dec-06	15	SCH	037						
5	Nelson	Nov-06	35	SPO	038	800	7	50	Shags		6
6	Southland	Nov-06	2	SCH	025	2000	22	129			
		Dec-06	6	SCH	025					Yellow-eyed penguin	1
		Feb-07	3	SCH	025						
		Feb-07	12	SCH	030						
		Feb-07	4	SCH	031					Fur seal	1
		Feb-07	3	SCH	027						
7	Southland	Dec-06	6	SPO	025	500	40	180			
8	Nelson	Nov-06	20	SPO	037	700	4	25			
			18	SPO	038					Fluttering shearwater	1
9	Kaikoura	Nov-06	16	TAR	018	300	8	30			
			16	LIN	018	330					
10	Kaikoura	Dec-06	41	SCH	018	400	5	15		Hector's dolphin	1
		Dec-06	6	TAR	018	200					
11	Kaikoura	Dec-06	2	BUT	018	40	5	6			
12	Southland	Jan-07	12	SCH	030	2000	13	80			
			5	SCH	025					Yellow-eyed penguin	1
13	Otago	Mar-07	3	SCH	024	750	15	75			
14	Otago	Mar-07	4	SCH	024	800	10	60			

b. Inshore trawl observer data 06/07

	Month	STAs	Target	No. tows	Average tow length (hours)	Average depths fished (m)	Average haul time (mins)	Method	Vessel length (m)	Protected species bycatch (alive)	Protected species bycatch (dead)	No. bycaught
1	Jul-06	014, 015	TAR	14	4	134	8	BT	25		White-capped alb	2
	Aug-06	035, 036	TAR	16	4	102	8	BT				
2	Oct-06	042, 045	SNA	24	3	75	10	BT	32			
	Oct-06	045, 046	TRE	14	4	45	10	BT				
3	Mar-07	034, 035	TAR	16	5	181	8	BT	23		White-capped alb	4
	Mar-07	034, 035	STA	2	5	181	8	BT				
	Apr-07	034, 035	TAR	8	5	181	8	BT				
4	Mar-07	008, 009	TAR	7		135	12	BT	18		Petrels	2
	Mar-07	008, 009	JDO	1		70	6	BT				
	Mar-07	008, 009	TRE	7		70	6	BT				
	Mar-07	005, 006	GUR	2		70	6	BT				
	Mar-07	005, 006	JDO	10		70	6	BT				
	Apr-07	005, 006	JDO	51		70	6	BT				
5	Mar 07- Apr-07	002, 003, 008	TAR, TRE, JDO, SQU, SNA	41		21 - 438	14m/min	BT	21	Shearwater		1
	Apr-07	047	TAR, RBY	5		21 - 438	14m/min	BT				
	Apr-07	002, 003, 008	SNA, TRE, TAR	6		21 - 438	14m/min	BT				
6	Mar-07	042, 045, 046	GUR	11		40	4	BT	21			
		042, 045, 046	TAR	2		100	8	BT				
	042, 045, 046	TRE	1		70	6	BT					
	042, 045, 046											

7	Feb-07	033	RCO	30		10 - 120	5	BT	27
8	Feb-07	045, 046	SNA	1	4	50	6	BT	26
	Feb-07	045, 046	TRE	14	4	50	6	BT	
	Feb-07	045, 046	TAR	1	4	150	15	BT	
9	Feb-07	033, 034	TAR	10		40 - 237		BT	?
	Feb-07	033, 034	WAR	4		40	5	BT	
	Feb-07	032	TAR	4		40	5	BT	